

Control of spiphytic microflora. Dokl.AM SSSR 93 no.5:907-909 D '53. (MIRA 6:12) 1. Predstavleno akademikom A. I. Oparinym. (Wheat-Diseases and pests) (Microcrganisms)

FD 301

USSR/Biology

Card 1/1

Author

: Khudyakov, Ya. P.

Title

The contemporary status and the problems of soil microbiology

Periodical

: Mikrobiologiya, 23, 331-348, May/Jun 1954

Abstract

: According to a footnote, this article was published to promote discussion of the contemporary status and the problems of soil microbiology. The article discusses the historical development of soil microbiology in the USSR; the effects of crop rotation of the activity of the soil; the disparity between microbiological reactions of the soil and plants which occur in culture media, and those occuring naturally in the soil; the activity and effectiveness of various organic, mineral, and bacterial fertilizers used alone and in combination; controlling the general biological activity of the soil; and the inter-relationships which exist between the various bacteria inhabiting the soil and the root systems of plants.

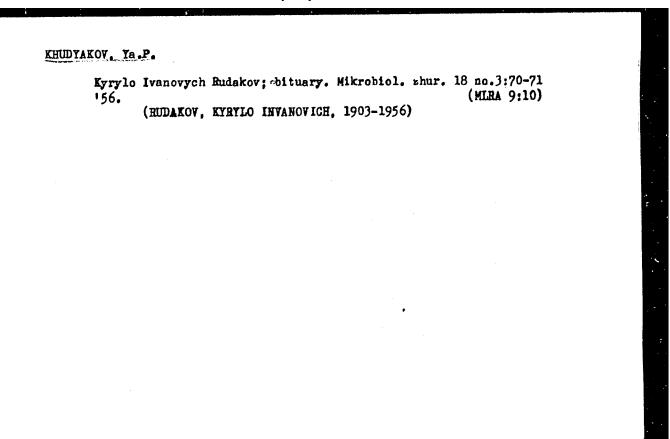
Institution : The Moscow Department of the All-Union Scientific-Research Institute of

Agricultural Microbiology

Submitted

: January 22, 1954

Fulse of the soil. Znan. sila no.5:19-21 My '55. (MIRA 8:6) (Soils-Bacteriology)



KHUDYAKOV,

USSR Microbiology. Soil Microbiology.

F-3

Abs Jour: Referat. Zh.-Biol., No. 9, 1957, 35612

Author: Khudiakov, Ia., Voziakovskaia, Iu. M.

Title The Microflora of Wheat Roots and Several of

1ts Properties

Orig Pub: Mikrobiologiia, 1956, 25, No. 2, 184-190

Abstract: A study was made of the specific composition of

the microflora living on the roots of winter wheat washed out of the soil in the phase of milling ripeness or with ears. The microflora of the wheat roots was represented by 41 species, and contained representatives of the genera, Pseudomonas, Bacterium, Mycobacterium, Chromobacterium; 25 species of micro-organisms live not only on the roots but also on the aboveground parts of the plant, i.e., they are

Card 1/2

Moscour Dept, AU Soi Sen Inst agricultural

KHUDYAKOV, Ya.P., kand.biol.nauk (Moskva); KOZLOV, I.V., kand.biol.nauk (Moskva)

Epiphytic micro-organisms in the control of mildew in grapes.

Zashch. rast. ot vred. i bol. 3 no.4:22-23 J1-Ag '58. (MIRA 11:9)

(Grapes--Diseases and pests) (Mildew) (Epiphytes)

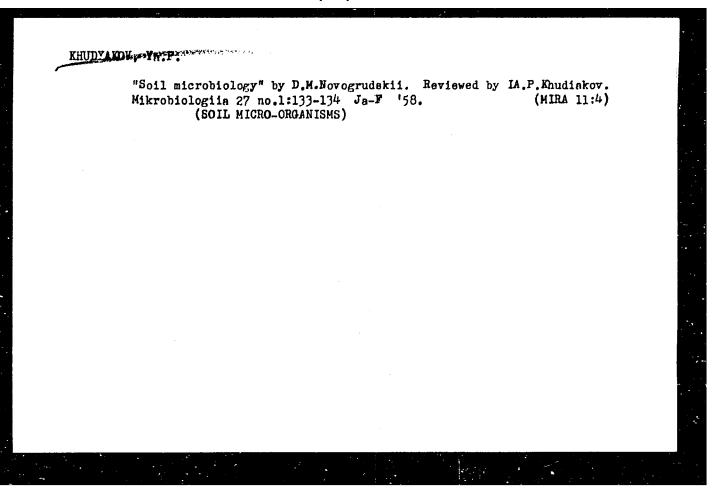
KHUDYAKOV, Ya.P.

Periodicity of microbiological processes in the soild. Trudy Inst. mikrobiol. no.5:150-160 '58 (MIRA 11:6)

1. Moskovskoye otdeleniye Vsesoyuznogo instituta sel'skokhozyaystvennoy mikrobiologii.

(SOIL, microbiology,
periodicity of microbiol. processes (Rus))

(MICROORGANISMS, in soil, periodicity of microbial processes (Rus))



BEREZOVA, Ye.; BORODULINA, Yu.; BUSHUYEVA, P.; GEL'TSER, F.; GOLIKOV, V.; DOROSINSKIY, L.; KOZLOVA, N.; KRAKHIN, P.; KRUGLOV, N.; LAZAREV, W.; LAMPOVSHCHIKOV, P.; MAKAROVA, M.; MARKOVA, Z.; NESTEROVA, Ye.; PROKHOROV, M.; SOROKINA, T.; STARYGINA, L.; KHUDYAKOV, Ya.

Ivan Il'ich Samoilov; obituary. Mikrobiologiia 28 no.2:318-319 Mr-Ap '59. (MIRA 12:5) (SAMOILOV, IL'IA IL'ICH, 1900-1958)

Biological principles of cultivating subsoil horizons of Programs.

Trudy Inst. mikrobiol. no.7:18-33 '60. (MIRA 14:4)

1. Vsesoyuznyy nauchno-issledovatel skiy institut sel'skokhozyay-stvernoy mikrobiologii Vsesoyuznyy a.ademii sel'skokhozyaystvennykh nauk imeni Lenina.

(PODZOL) (TILLAGE)

VOZNYAKOVSKATA, Tu.M.; EHUDYAKOV, Ta.P. Species composition of the epiphytic microflora of living plants. Mikrobiologiia 29 no.1:97-103 Ja-F '60. (MIRA 13:5) 1. Vsesoyuznyy institut sel'skokhozyaystvennoy mikrobiologii, Leningrad. (PLANTS microbiol.)

KHUDYAKOV, Ya.P.; SHKLYAR, M.S.; SAVADEROV, Ye.P.

Antifungin antibiotic produced by bacteria of the genus Pseudomonas. Prikl. biokhim. 1 mikrobiol. 1 no.20186-190 Mr-Ap 165. (MIRA 18:21)

1. Vsesovuznyy nauchno-issladovateliskiy institut seliskokhozyaystvennoy mikrobiologii.

KHUDYAKOV, Ye.

University training of news photographers. Sov. foto 23 no.6: 20-21 Je '63. (MIRA 16:7)

1. Dekan fakul'teta zhurnalistiki Moskovskogo gosudarstvennogo universiteta.

(Photography, Journalistic)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000722420007-7

FDN/WW $EW\Gamma(1)/\Gamma-2$ L 04303-67 (N)

ACC NR: AP6005388

SOURCE CODE: UR/0413/66/000/001/0139/0139

AUTHORS: Reka, Ya. D.; Khudyakov, Ye. D.; Chernobay, I. F.; Fenkel shteyn, L. A.; Kultygin, N. S.; Lavrenyuk, N. A.

ORG: none

TITLE: A pneumatic drive direct-action pump pressure booster. Class 59, No. 177772 /announced by Donets State Design-Construction and Experimental Institute of the Complex Mechanization of Mines (Donetskiy gosudarstvennyy proyektno-konstruktorskiy i eksperimental'nyy institut kompleksnoy mekhanizatsii shakht)/

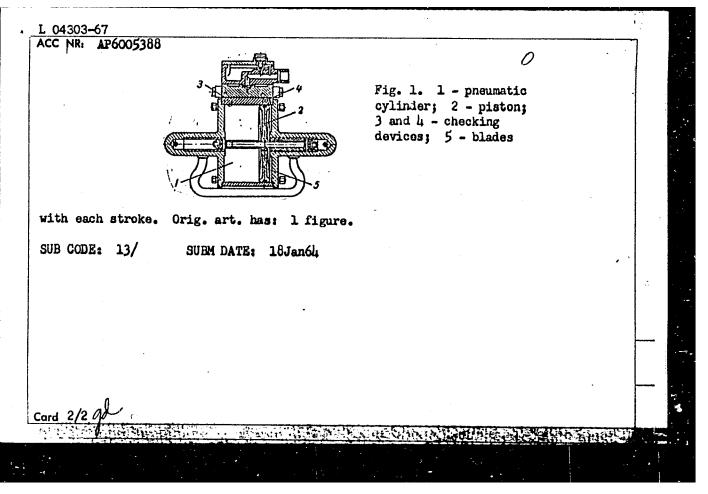
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1966, 139

TOPIC TAGS: water pump, high pressure pump, high pressure pneumatic device, hydraulic pressure amplifier

ABSTRACT: This Author Certificate presents a pneumatic drive direct-action double acting pump pressure booster. The device includes a pneumatic cylinder with a piston, two operating cylinders with pistons rigidly connected with the piston of the pneumatic cylinder, and a distributing valve which is repositioned with the aid of checking devices when the piston approaches the extreme piston (see Fig. 1). The design increases the lifetime of the pump. The piston of the pneumatic cylinder is equipped at its ends with blades for rotating the piston to a specified angle

Card 1/2

UDC: 621.651.002.54



GERTSBERG, V.; KHUDYAKOV, Yu.; GOLIK, V.; ANUFRIYEV, P., inzh.; KULAGINA, T., inzh.

A trial check of a suggestion. Sots. trud 8 no.2:115-121 F '63. (MIRA 16:2)

1. Nachalinik byuro normirovaniya Uraliskogo zavoda tyazhelogo mashinostroyeniya (for Gertaberg). 2. Nachalinik byuro truda i ekonomiki obrubnogo tsekha Uraliskogo zavoda tyazhelogo mashinostroyeniya (for Khudyakov). 3. Starshiy inzhener otdela organizatsii truda i zarabotnoy platy kombinata Kemerovoshakhtokhimstroy (for Golik). 4. Otdel organizatsii truda i zarabotnoy platy kombinata Kemerovoshakhtokhimstroy (for Anufriyev). 5. Otdel truda i kadrov Upravleniya derevoobrabatyvayushchey i bumazhnoy promyshlennosti Sverdlovskogo soveta narodnogo khozyaystva (for Kulagina).

(Sverdlovsk-Wages-Machinery industry workers) (Kemerovo-Wages-Mining engineering) (Sverdlovsk-Wages-Furniture industry)

5(3)

SOV/62-59-5-36/40

AUTHORS:

Puzitskiy, K. V., Eydus, Ya. T., Khudyakov, Yu. T.

TITLE:

On the Development of the Reaction of the Hydrogen-condensation of Carbon Monoxide With Ethylene Under a Pressure of 10 at (O protekanii reaktsii gidrokondensatsii okisi ugleroda s etilenom pod davleniyem 10 atm)

9111

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

1959, Nr 5, pp 945 - 947 (USSR)

ABSTRACT:

PERIODICAL:

The hydrogen-condensation of carbon monoxide with ethylene mentioned in the title has hitherto been investigated only under atmospheric pressure. In this case it was carried out at a pressure of 10 at. A metal velocity modulation tube was used as reactor in this investigation, which was built into a catalyzing furnace with automatic temperature control. The usual cobaltclay (1:2) catalyst was used. The outflowing gas volume was rheometrically measured. The experiments were carried out at 190°. All other investigation conditions differed in no way from those of references 1,2. For comparison, the investigations were carried out also under atmospheric pressure. The following was determined: the yield of heavy (H) and light (L) olefins in ml/mm³ H+L and H+L+G (G= gaseous olefins) at various mixing

Card 1/2

On the Development of the Reaction of the Hydrogen-SOV/62-59-5-36/40 condensation of Carbon Monoxide With Ethylene Under a Pressure of 10 at

> ratios CO + C_2H_A :H. CO was varied from 0.3-6.9%, C_2H_A :H \sim 3. The throughput was 100 hours -1. From the data obtained (Tables 1-2) it was found that the total defin yield is only half of that obtained under atmospheric pressure. P=1 at: H+L= =290 ml/mm³, H+G+L= 525 ml/mm³. P= 10at: H+L= 190 ml/mm³ H+L+G= 250 ml/mm³. With an increase of the carbon monoxide content from 0.3 to 6.4% the yield of heavy olefins compared to light olefins increased, while the gaseous ones decreased considerably. The total yield increased. The same development was found also in the case of experiments carried out at pressures of less than 10 at. Herefrom the authors drew the conclusion that with increasing CO-content in the initial mixture the degree of polymerization of the obtained product increases. There are 2 tables and 5 Soviet references.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry imeni N. D. Zelinskiy of

the Academy of Sciences, USSR) November 12, 1958

SUBMITTED:

Card 2/2

BULANOVA, T.F.; EYDUS, Ya.T.; SERGEYEVA, N.S.; KHUDYAKOV, Yu.T.

Directed catalytic synthesis of solid paraffins from carbon monoxide and hydrogen. Dokl. AN SSSR 153 no.1:101-103 N 163. (MIRA 17:1)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR. Predstavleno akademikom B.A. Kazanskim.

KHUDYAKOV, Zinoviy Ivanovich; KRAYZ, A.G., nauchn. red.; KOHRINSKAYA, M.V., red.

[Transformer repuir electrician] Elektroslesar' po remontu transformatorov. Moskva, Vysshaia shkola, 1964. 270 p. (MIRA 17:5)

5/065/60/000/004/006/017 E071/E435

AUTHORS:

Levchenko, D.N., Khudyakova, A.D., Kalitayeva, A.L.

Shkiyaruk, Ye.A., Khokhlov, V.I. and Chugreyeva, A.S.

TITLE:

Non-Ionogenic Surface-Active Substances | -

De-Emulsifying Agents for Petroleum Emulsions

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1960, No.4,

pp. 24-29

TEXT: Results of synthesis and testing of non-ionogenic surfaceactive substances (de-emulsifying agents) from fractions of alkylphenols, obtained as a by-product in the production of an antioxidant additive 2,6-ditertiarybutylparacresol (DBPK) are given. As a starting material for the synthesis monoalkylcresol fraction (126 to 142°C at 20 mm Hg) and residue from the production of DBPK and their mixtures and oxyethylene were taken. The experimental procedure is described in some detail. alkyleneglycols obtained were tested on petroleum emulsions as de-emulsifying agents and surface tensions of their aqueous solutions of various concentrations were tested (Fig.1). varying the duration of oxyethylation process products containing various numbers of oxyethylene groups were obtained.

Card 1/2

S/065/60/000/004/006/017 E071/E435

Non-Ionogenic Surface-Active Substances - De-Emulsifying Agents for Petroleum Emulsions

that compounds containing less than 10 groups of oxyethylene were not completely soluble in water, while compounds containing larger proportions of these groups were well soluble. The surface tension of compounds containing from 14 to 32 groups varied little, particularly at low concentrations. With increasing number of groups up to 40 and above, the surface active properties of the compounds deteriorate. The best results were obtained with substances containing between 25 to 30 of oxyethylene groups. The latter type of compounds was named VNII NP-58. Its de-emulsifying activity was compared with other reagents used at present in the petroleum industry (table) and was found to be superior to that of other reagents. The consumption of this agent for the desemulsification of Bashkirian crudes amounts to 0.005 - 0.01% and on thermochemical desalting of the Romashk crude - 0.03%. It is concluded that oxyethylation of by-products obtained during the production of DBPK should be introduced into the industry. There are 2 figures, 1 table and 6 Soviet references.

ASSOCIATION: VNII NP

Card 2/2

LEVCHENKO, D.N.; NIKOLAYEVA, N.V.; KHUDYAKOVA, A.D.

Use of block copolymers of propylene and ethylene oxides for the breaking of petroleum emulsions. Khim. i tekh. topl. i masel 9 no.3:36-40 Mr²64 (MIRA 17:7)

1. Vsesoyuznyy nauchmo-issledovatel'skiy institut po pererabotke nefti i gazov i polucheniyu iskusstvennogo shidkogo topliva.

LEVCHENKO, D.N.; KHUDYAKOVA, A.D.; GAVRILOVA, N.D.

Determination of nonionizing surface active substances in aqueous solutions. Zav. lab. 27 no. 4:408-409 '61. (MIRA 14:4)

l. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva.

(Surface active agents)

Agroclimatic conditions determining the planting time of potatoes in the Far East. Trudy Dal'nevost. NIGMI no.12:94-105 '61.

(MIRA 14:12)

(Soviet Far East--Potatoes) (Planting time)

KHUDYAKOVA, A.I.; TSUBERBILLER, Ye.A.

Agrometeorological conditions of tuberization in potatoes in the Far East. Trudy Dal'nevost. NIGMI no.16:115-127 164.

Studying the total evaporation from potato fields in the Maritime Territory. Ibid.:128-140

(MIRA 17:11)

AFANAS'YEV, Pavel Semenovich, kand. tekhn. nauk; YANISHEVSKIY, Aleksey Eedorovich, inzh.; KHUDYAKOVA, A.V., nauchnyy red.; LYAL'KIN, I.A., nauchnyy red.; RYCHEK, G.I., red.; TOKER, A.M., tekhn. red.

[Setting up woodworking machinery] Naladka derevoobrabatyvaiushchikh stankov. Izd.2., perer. i dop. Moskva, Proftekhizdat, 1962. 439 p. (MIRA 16:4)

KHUDYAKOVA, E.; TSIVIRKO, G.F.

Photography and cinematography serve nature. Priroda 49 no.11:123 N '60. (MIRA 13:11)

1. Gosudarstvennyy istoricheskiy arkhiv, Leningrad (for Khudyakova). 2. Leningradskiy Dom rabotnikov prosveshcheniya (for TSivirko).

(Nature photography)

KHUDYAKOVA, E.

Welcome changes. Obshchestv. pit. no.11:11-12 N '61.

(MIRA 15:2)

1. Glavnyy tekhnolog Upravleniya obshchestvennogo pitaniya
Ministerstva torgovli Iatviyskoy SSR.

(Riga—Restaurants, lunchrooms, etc.)

ZNAMENSKIY, Yu.; KHUDYAKOVA, E.

Dairy resteurant "Leningrad." Obshchestv.pit. no.1:33 Ja *63.

(MIRA 16:4)

(Leningrad—Restaurant, lunchrooms, etc.)

NOVIKOV, Valer'yan Dmitriyevich; KHUDYAKOVA, G., redaktor; DANILINA, A., tekhnicheskiy redaktor,

[History of mastering the Soviet Arctic] Iz istorii osvoeniin Sovetskoi Arktiki. Moskva. Gos.izd-vc polit.lit-ry, 1956. 214 p. (Arctic regions) (MLRA 9:5)

RATNER, S.I., prof.; FAYN, O.I.; MASHILOV, V.P.; MITROFANOVA, V.G.; KHUDYAKOVA, G.K.; VIL'SHANSKAYA, F.L., kand. med. nauk (Moskva)

Treatment of nonspecific ulcerous colitis with dried colibacterin. Klin. med. 41 no.2:109-115 F*63 (MIRA 17:3)

l. Iz Moskovskoy bol'nitsy imeni S.P. Botkina i Moskovskogo nauchmo-issledovatel'skogo instituta epidemiologii i mikro-biologii Ministerstva zdravockhraneniya RSFSR.

RATNER, S.I.; KHUDYAKOVA, G.K. (Moskva)

Pulmonary form of smallpox. Klin.med. no.4:51-59 162.

(MIRA 15:5)

1. Iz infektsionnogo otdeleniya (nauchnyy rukovoditel! - prof.
S.I. Ratner) i rentgenologicheskogo otdeleniya (nauchnyy rukovoditel! - zasluzhennyy deyatel! nauk prof. S.A. Reynberg) Bol!nitsy imeni S.P. Botkina.

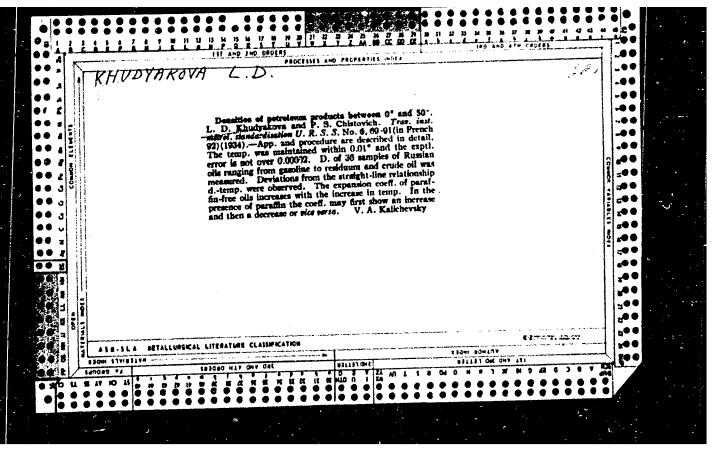
(SMALLPOX) (LUNGS--DISEASES)

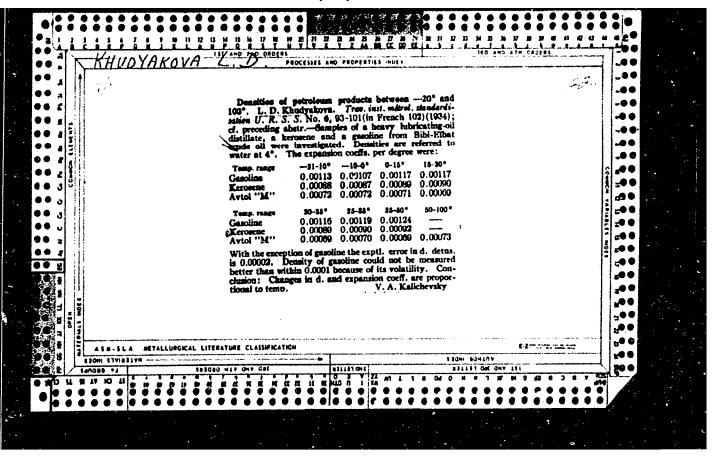
KORYAKIN, V.I.; KHUDYAKOVA, L.A.; GUR'YANOVA, A.A.

Investigating the yield of various wood chemical products in the pyrolysis of wood impregnated with sulfuric acid, dependent on the conditions of the process. Sbor. trud. TSNILKHI no.15:3-7 '63. (MIRA 17:11)

KORYANIN, V.I.; KHUDYAKOVA, L.A.; FURSOVA, V.V.; RUDI, L.A.

Yield of furfurole and other wood chemical products in the pyrolysis of beechwood impregnated with sulfuric acid. Gidroliz. i lesokhim. prom. 17 no.5:15-17 '64. (MIRA 17:10)





Studying low-temperature glass thermometers filled with liquids. Trudy VNIIM no.4:66-94 '48. (MIRA 11:11) (Thermometers)

E. 19013-65 PRF(1)/ERG(b)s/PRI(D) Feb SD//SD(s)-5/AR(sc)-2/RRD/ARM/RRD(s)/
RD(ge)/RD(c)

ACCESSION RE: 18404067

2 0067/64/034/01/2004/2047

AUTHOR: Khadyskova, Lost punishers are the readisting from a miliad x-ray tube of special contribution.

TITLE: The hard component of the radiation from a miliad x-ray tube of special contribution.

SUBJECT: Emural technicheskov firstly v.34, no.11, 1864, 2044-2047

TOPIC vicas: x-ray and sing x-ray tube; pulsed radiation, hard photes contribution.

UNSTRACT: This radiation recome reflect a ray tube of special design was exhaused and the presence of an ultrahard component was established; the gramma servery of the applied potential; They use in a stable and the basis of a time and the recommendation of the servery tube is described in more detail assets of a time tradiation of the script of the script of the stable of the milianist of the stable o

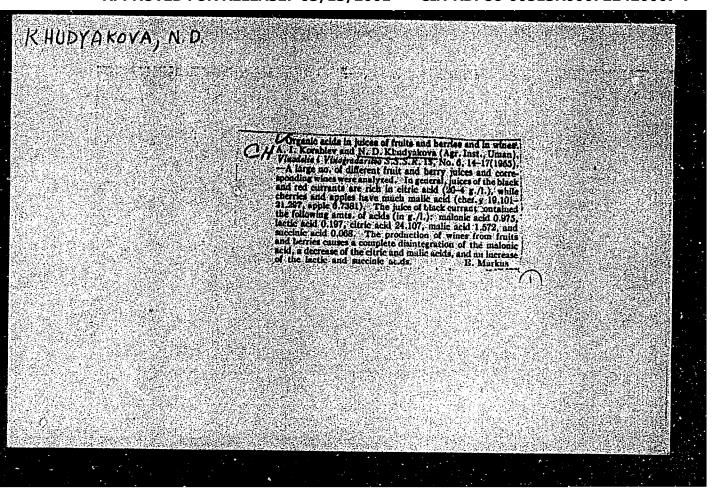
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absorption in lead and in sizes. The absorption mes photomultipliers A complete The absorption current found that 300	(eta ausorgota, culvi ¹⁰⁸ varios constastal)		DV LIATOUS AND LS ODTAILING AT CACL LSG AND ESS	
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KHIL'KIN, A. M. (Moskva, 2-ya Cheremushkinskaya ul., d. 17, korp. 1, kw. 51); KHUDYAKOVA, M. I.

Surgical anatomy of the aortic valve. Grud. khir. no.5:3-7 '61. (MIRA 15:2)

1. Kafedra operativnoy khirurgii i topograficheskoy anatomii (zav. - chlen-korrespondent AMN SSSR prof. V. V. Kovanov) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I. M. Sechenova.

(AORTIC VALVE)



MHUDYAKOVA, N.D

AUTHORS:

Remenets, M.F. and Khudyakova, N.D.

21-5-25/26

TITLE:

A Study of the Dynamics of Cellulose Decomposition and Atmospheric Nitrogen Fixation by Microorganisms in Lowlands Peats (Izucheniye dinamiki razlozheniya kletchatki i fiksatsii atmosfernogo azota mikroorganizmami na nizinnom torfyanike)

PERIODICAL:

Dopovidi Akademii Nauk Ukrains'koi RSR, 1957, Nr 5, pp. 521-524 (USSR)

ABSTRACT:

The most widely occurring azotobacter species in the lowland peats of the Ukrainian Poles'ye is Azotobacter agili (Bei-jerinck) followed by Azt.vinelandi (Lipmann) and Azt.chro-ococcum (Beijerinck). All the microbe cultures studied are far more abundant in cultivated peats than in uncultivated. The processes of nitrogen fixation and cellulose decomposition take place chiefly in the upper peat horizons. The quantity of the investigated microbe cultures during the autumn months was far greater than in the spring. The most intensive decomposition of cellulose and the greatest quantity of azotobacter was found under sugar beet and potatoes. There is an interrelationship between the development of cellulose decomposing bacteria and azotobacters and the period of plant vegetation. The optimum development of these microbes occurs

Card 1/2

21-5-25/26

A Study of the Dynamics of Cellulose Decomposition and Atmospheric Nitrogen Fixation by Microorganisms in Lowlands Peats

at a pH close to the neutral, but they adapt themselves to a much lower pH-value (5 to 5.3). A still more acid medium of uncultivated peats (pH = 4.5 to 4.7) and the weak aeration and excessive moisture exert a depressive effect on the development of microorganisms in them.

The article contains 1 table and 12 references, 11 of which

are Slavic.

ASSOCIATION: Sarny Scientific Research Station for Swamp Reclamation

(Sarnens'ka n.-d. stantsiya po osvoyennyu bolit)

PRESENTED: By P.A. Vlasyuk, Member of the AN Ukrainian SSR

SUBMITTED: 21 February 1957

AVAILABLE: Library of Congress

Card 2/2

Physical foundation for clothoidal tracing. Avt. dor. 26 no.5: 18-19 My '63. (MIRA 16:7)

(Roads-Design)

GOLOVATYY, R.N.; OSHCHAPOVSKIY, V.V.; KHUDYAKOVA, N.H.

Qualitative detection of cobalt by means of precipitation chromatography. Ukr. khim. shur. 24 no.4:491-494 '58.

(MIRA 11:10)

1. L'vovskiy gosudarstvennyy universitet i L'vovskiy politekhnicheskiy institut.

(Cobalt) (Chromatographic analysis)

Method for a rapid determination of carotene in canned foods.

Kons. i ov. prom. 16 no.11:78-41 N '61. (MIRA 14:11)

1. Krasnodarskiy nauchno-issledovatel'skiy institut pishchevoy promyshleningsti. (Carotene)
(Food, Canned--Analysis)

MOKHNACHEV, I.G.; SERDYUK, L.G.; KHUDYAKOVA, R.G.

Determining carotene content of tomato products. Kons.i ov.prom. 17 no.5:42-43 My '62. (MIRA 15:5)

1. Krasnodarskiy nauchno-issledovateliskiy institut pishchevoy promyshlennosti.

(Tomato products)
(Carotene)

KHUDYAKOVA, R. I.; DOMAN, N. G.; KUZIN, A. M.; MANUL! Yo. V.

Photosynthesis

Problem of diversity of primary products of photosynthesis in different species of plants. Dokl. AN SSSR 86 no. 2, 1952.

Monthly List of Russian Sccessions, Library of Congress, December 1952. Unclassified.

BATEST, U.I., inche; KHUDYAKOVA, R.M., inch.

"Light streak" in furnace welded pipe seams. Svar. proizv. no.3: 12-14 Mr '64. (MIRA 18:9)

1. Gralwiff.

KHUDYAKOVA, R. YE.

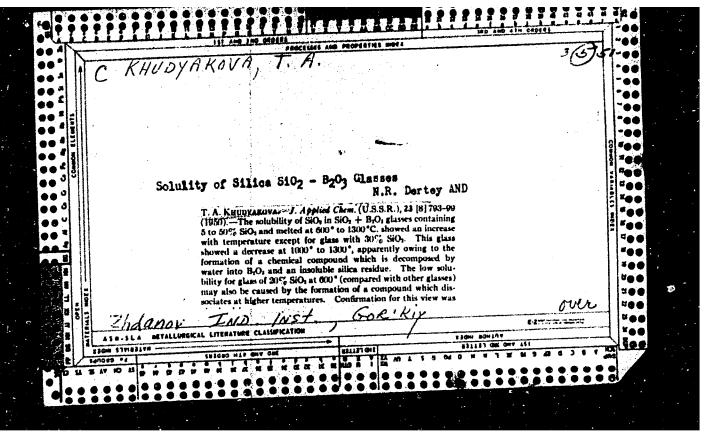
582

Desyar' let na ferme. Rasskaz doyarki /kolkhoza 'krasnyy oktyabr'' ukholmogorakh. Lit. obraborka N. K. Zhernakova/. Arkhangel'sk, kn. izd., 1954. 28 s. 20 sm. 5.000 ekz. 35 k. - /54-55592/ p 636.2.083 sr (47.21)

SO: Knizhnaya Letopis, Vol. 1, 1955

CA

Chemistry of Bantless. XIX. Selfators of quadrivalent titanium. A. V. Pannibry and T. A. Khulyshava. J. Astron. Obsk. kell. Khim. (J. Gen. Chem.) 197, 1943. 25 (197). Obsk. kell. Khim. (J. Gen. Chem.) 197, 1943. 25 (197). Obsk. kell. Khim. (J. Gen. Chem.) 197, 1943. 25 (197). Obsk. kell. Khim. (J. Gen. Chem.) 197, 1943. 1943. 1944



HH4DYAKOVA, T.A. USSR/Chemical Technology - Chemical Products and I-10 Their Applications - Silicates. Glass. Ceramics. Binders. Abs Jour : Ref Zhur- Khimiya, No 3, 1957, 8960 Dertev, N.K., Khudyakova, T.A. and Vaganova, V.N. Gorki Polytechnical Institute. Author Inst. Title The Effect of Heat Treatment and Stresses in Glass on the Latter's Surface Chemical Resistance. Tr. Gor'kovsk. politekhn. in-ta, 1955, 11, Orig Pub No 3, 17-26 The effect of heat treatment and of stresses Abstract on the chemical resistance (KhU) of glass (G) has been investigated as well as the question of improving the KhU of the latter's. Card 1/3

USSR/Chemical Technology - Chemical Products and I-10
Their Applications - Silicates. Glass.
Ceramics. Binders.

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, 8960

Specimens of sheet glass and K-3 glass (composition given) were used in the tests. The surface KhU was tested by the mylius iodo-eosin method, the concentration of iodi-eosin Na in the solution being determined with the aid of a FEK-M photoelectric colorimeter. It is shown that the KhU depends to a great extent on the condition of the surface film, heat treatment below 4000 having a great effect of the KhU of the G. When G is soaked at temperatures below 4000, a considerable decrease in KhU is observed from which it follows that the cooling rate of G below 4000 must be the maximum possible.

Card 2/3

AUTHOR:

Khudyakova, T. A.

507/32-24-10-11/70

TITLE:

An Automatic Chrono-Conductometric Method of Analysis for Mixtures of Sulfuric Acid, Acrylic Acid, and Ammonium Bisulfate (Avtomaticheskiy khronokonduktometricheskiy metod analiza smesi sernoy i akrilovoy kislot i bisul'fata ammoniya)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol 24, Nr 10, pp 1197-1200

(USSR)

ABSTRACT:

The conductometric analysis method suggested by A. K. Kal'ye (Refs 1, 2) has a series of advantages, compared with other analyses of this type. The difference between the method described in the present paper and the one mentioned above is the automatic addition of the titration liquid from a Mariotte container. The analysis is carried out with a special conductometer constructed with the assistance of N. Ye. Pavlov under the application of a self-recording millivoltmeter (Ref 3). A drawing of the plant as well as a description are given which show that a millivoltmeter of the type MS_Shch=P2R=354 was used. The described method makes possible the determination of not only the sulfuric and acrylic acids, but also of ammonium sulfate. In the

Card 1/2

SOV/32-24-10-11/70 An Automatic Chrono-Conductometric Method of Analysis for Mixtures of Sulfuric Acid, Acrylic Acid, and Ammonium Bisulfate

case of a titration of the mixture which contains all three components the conductometric curve has three fissures. The experimental results obtained (given in tables) show that the titration time of the sulfuric acid and of the ammonium sulfate is changed directly proportionally with the concentration of the latter. The minimum concentration of the acrylic acid which can be determined in this mixture is 0,01 n. Data are given in tables as well as graphic representations. There are 4 figures, 2 tables, and 6 references, 4 of which are Soviet.

ASSOCIATION:

Gor'kovskiy politekhnicheskiy institute im. A. A. Zhdanova (Gor'kiy Polytechnical Institutenmeni A. A. Zhdanov)

Card 2/2

KHUDYAKOVA, T.A.; NEMTSEVA, L.I.; BALANDINA, M.A.

Chronoconductometric determination of ethylene oxide in the presence of methacrylic acid and iron salts. Zhur.prikl. khim. 35 no.4:824-827 Ap '62. (MIRA 15:4)

 Gor'kovskiy politekhnicheskiy institut, kafedra analiticheskoy khimii.

(Ethylene oxide) (Conductometric analysis)

8/081/63/000/004/010/051 B193/B180

AUTHORS: Khudyakova, T. A., Nemtaeva, L. I., Belousova, Z. S.

TITLE: Automatic time-conductimetric analysis of a mixture of hexamethylenediamine and hexamethyleneamine

PERIODICAL: Referativnyy shurnal. Khimiya, no. 4, 1963, 156, abstract 4G160 (Tr. po khimii i khim. tekhnol. (Gor'kiy), no. 4, 1961, 772 - 774)

TEXT: An automatic time-conductimetric method of analyzing a mixture of hexamethylenediamine (I) and hexamethyleneamine (II) has been developed, the basic principle of which has been described in RZhKhim, 1959, no. 7, 22973. The content of II is determined by conductimetric titration of the mixture with an aqueous solution of HC1 in the presence of salecyl aldehyde (III). I forms a compound with III which cannot be titrated by the acid. Titration of the mixture of I and II in the absence of III is used to determine the total content of I and II, the content of I being calculated from the difference between the two titrations. The analyzed sample 3.5 g in weight is dissolved in water in a 100 ml measuring flask (solution A).

Card 1/2

S/081/63/000/004/010/051
Automatic time-conductimetric analysis... B193/B180

20 ml ethanol, 3.5 ml III, 10 ml sol. A and 40 ml water were placed in the bath of the conductimeter and titrated time-conductimetrically for 15 min with 0.05 - 0.07 N sol. HCl. The equivalence point was determined from the salient point in the potential (my) v. time (sec) titration curve, 10 ml sol. A was transferred to a 100 ml measuring flask and water added up to the mark (sol. B). 10 ml sol. B and 40 ml water were placed in the conductimeter bath and titrated for 0.5 min with the same sol. HCl. The error of the determination was $\leq 2.5\%$; the analysis took 30 - 35 min. [Abstracter's note: Complete translation.]

Card 2/2

KHUDYAKOVA, T.A.; VAGANOVA, V.N.

Chronoconductometric method for determining ammonium chloride in an iron - zinc electrolyte. Trudy po khim.1 khim.tekh. no.1:135-139 '63. (MIRA 17:12)

KHUDYAKOVA, T.A.; AUROV, A.P.; KRYLOVA, V.I.

Chronoconductometric method for the determination of sodium polymethacrylate, its copolymer with methyl methacrylate and for the analysis of mixtures with NaOH. Zhur.anal.khim. 19 no.9:1137-1141 [64.]

1. Gor'kovskiy politekhnicheskiy institut imeni Zhdanova.

KRESHKOV, A.P.; KHUDYAKOVA, T.A.; AUROV, A.P.; ARBATSKIY, A.P.

Chronoconductometric method for determining maleic anhydride in its copolymer with styrene and sodium styromaleinate. Plast. massy no.7: 51-55 '65. (MIRA 18:7)

KRESHKOV, A.P.; KHUDYAKOVA, T.A.

Chronoconductometric method for determining weak acids.

Zhur. anal. khim. 20 no.5:625-629 '65. (MIRA 18:12)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva i Gor'kovskiy politekhnicheskiy institut imeni A.A. Zhdanova. Submitted March 27, 1964.

KHUDYAKOVA, T.A.; KRESHKOV, A.P.

Chronoconductometric method of determining weak acid salts. Zav. lab. 31 no. 12:1427-1430 *65 (MIRA 19:1)

1. Gor'kovskiy politekhmicheskiy institut i Moskovskiy khimiko-tekhnologicheskiy institut.

KHUDYAKOVA, T.A., PAVEL YAVA, Ye.I., KOYLOV, R.V.

or reconductimentic analysis of a mixture of trichloresilane and silicon tetrachloride. Znur.prikl.khim. 38 no.9:2002-2007 0 *55. (MIRA 18:11)

To Gor boughtly politakhnicheskiy institut iment Zidanova.

EWP(m)/EFF(n)~2/EWF(t)/EWP(b) TAP(c) L 39576-66 ACC NR: AP6000683 SOURCE CODE: UR/0080/65/038/009/2002/2007 AUTHOR: Khudyakova, T. A.; Pavol'yeva, Ye. I.; Kozlov, R. V. ORG: Gorky Polytechnic Institute im. A. A. Zhdenov (Gor'kovskiy politekhnicheskiy institut) TITLE: Chronoconductometric analysis of a mixture of chlorosilane and silicon tetrachloride SOURCE: Zhurnal prikladnoy khimii, v. 38, no. 9, 1965, 2002-2007 TOPIC TAGS: chemical reaction, silene, silicon compound, metal chemical analysis ABSTRACT: In the case of a mixture of HsiCl3 and SiCl4, the hydrolysis reaction proceeds according to the following scheme: $SiCl_1 + 4HOH == Si(OH)_4 + 4HCI_5$ (1) $HSiCl_2 + 4HOH = Si(OH)_4 + 3HCl + H_2$. For the analysis of such a mixture, the article proposes a method based on chronoconductometric titration with hydrochloric acid, accompanied by the formation of sodium acetate during the hydrolysis of HSiCl3 and Sicili. Sodium acetate reacts with hydrochloric acid in equivalent Card 1/2 DDC: 51,3.257.5+51,6.281

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ACC NR: AP6000683

proportions. The overall reaction used for purposes of analysis is the following:

 $HSiCl_1 + 2HgCl_2 + 4H_2O + Si(OH)_1 + H_{P2}Cl_2 + 5HCl_2$

As a result of the reaction, from one gram mole of HSiCl₂ there are formed 5 gram moles of hydrochloric acid. In the overall reaction, I gram mole of SiCl₁ gives 4 gram moles of hydrochloric acid. By determining the amount of hydrochloric acid formed in the overall reaction, it is possible to determine the composition of the mixture from the amount of excess hydrochloric acid. It is claimed that the proposed method of analysis can be used for the analysis of colored and turbid industrial mixtures of trichlorosilans and silicon tetrachloride. Orig. art. has: 4 formulas, 1 figure, and 3 tables.

SUB CODE: 07/ SUBM DATE: 05Apr63/ ORIG REF: 016/ OTH REF: 007

Cord 2/2// 5

Kildyakova, V.A.

KULAKOVA, R.V., kandidat tekhnicheskikh nauk; MIRZOYEV, A.G., inzhener; UKSTIN, E.F., inzhener; EHUDYAKOVA, V.A., inzhener; MAKAROVA, L.I., inzhener.

Rlectric strength of main cables having paper cord-styroflex insulation. Vest. elektroprom. 28 no.4:31-35 Ap '57. (MIRA 10:6)

1. Nauchno-issledovatel'skiy institut kabel'noy promyshlennosti. (Electric cables)

KHUDYAKOVA, Ye.

Ancient wisdom serves 20th century humanity. Nauka i zhizn! 30 n no.4:66-70 Ap 163. (MIRA 16:7)

(MEDICINE, ARABIC) (RASULEV, KHADZHA RASMLEVICH)

KHUDYAKOVA, Ye.N., starshaya meditsinskaya sestra (Arkhangel'sk)

Preparing a patient for abortion and postoperative care.

Med. sestra 20 no.12:50-51 D '61.

(ABORTION)

(POSTOPERATIVE CAME)

KORENEVSKAYA, V.Ye.; YAKUSHEVSKAYA, I.V.; KAPLUNOVA, L.S.; KHUDYAKOVA, Yu.A.

Soil improvement characteristics of the Palace of the Soviets Park. Vest. Mosk. un. Ser. 6: Biol., pochv. 18 no.1:45-56 Ja-F '63. (MIRA 16:12)

1. Kafedra fiziki i melioratsii pochv, kafedra pochvovedeniya, kafedra agrokhimii, i kafedra biologii pochv. Moskovskogo universiteta.

KHUDYAKOVA, Yu.A.; ZUYEVA, I.N.

Absorption of activity of gibberellin in soils. Trudy Inst. mikrobiol. no.11:335-340 61 (MIRA 16:11)

l. Kafedra biologii pochv Moskovskogo gosudarstvennogo universiteta imeni Lomonosova.

KHUDYAKOVA, Yu. A.

"Comparative Characteristic of the Cultures of Azotobacter." Thesis for degree of Cand. Biological Sci. Sub 29 Dec 50, Inst of Microbiology, Acad Sci USSR

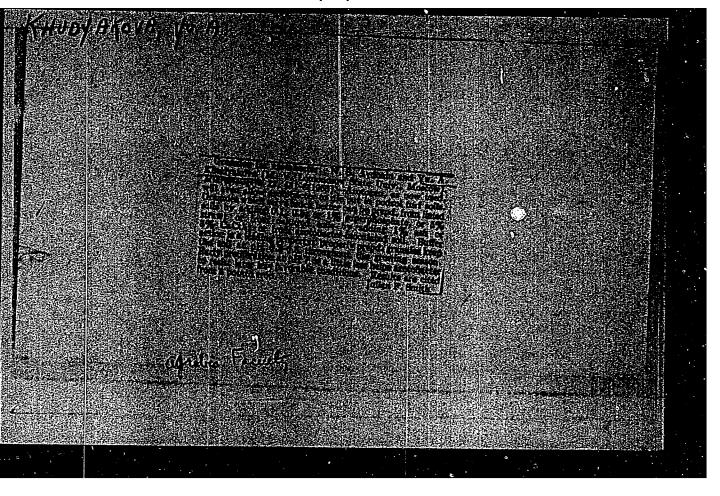
Summary 71, 4 Sept 52. <u>Dissertations Fresented for Degrees in Sci. and Engi. in Moscow in 1950</u>. From <u>Vechernyaya Moskva</u>. Jan-Dec 1950.

KHUDY AKOVA, Yu. A.

Flagellar apparetus in Anatobacter in electron microscopy. Trudy
Inst. mikrobiolo. no.2:141-50 '52. (MIRA 5:12)

(AZOTOBACTER,
flagella, electron microscopy)
(MICROSCOPT, HIEUTRON,
of Agotobacter flagella)

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000722420007-7



Grinding devices for chain mortising machines. Der.prom. 7 no.9:29-30 S 158. (Woodworking machinery)

BOOUSLAVSKIY, I.S., insh., KRUDYAKOVA, Z.M., insh.

Consideration of steel magnetisation characteristics in the calculation of turbogenerators using digital computers. Elektrotekhnika 36 no.12:5-6 D *65.

(MIRA 19:1)

SHATSKAYA, Eleonora Petrovna; KHUDYAKOVSKIY, Yu.K., inzh., retsenzent; TSARENKO, A.P., inzh., red.; MEDVEDEVA, M.A., tekhn. red.

[Practices of the over-all mechanization of the servicing of refrigerator cars] Opyt kompleksnoi mekhanizatsii ekipirovki vagonov-lednikov. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia, 1961. 29 p. (MIRA 14:6)

VINOKUROV, A.D., inzh.; DYUBKO, A.P., inzh.; LEVSHIN, B.S., inzh.; L'VITSIN, N.F., inzh.; RESHETIN, I.S., inzh.; KHUDYAKOVSKIY, Yu.K., inzh.; SHAPOVALENKO, M.M., inzh.; SHATSKAYA, E.P., inzh.; MATALASOV, S.F., kand. tekhn.nauk, retsenzent; SHISHLYKOV, Ye.S., inzh., red.; KHITROVA, N.A., tekhn. red.

[Manual on the transportation of perishable goods] Spravochnik po perevozke skoroportiashchikhsia gruzov. [By] A.D. Vinokurov i dr. Moskva, Transzheldorizdat, 1963. 323 p. (MIRA 16:10)

(Railroads-Freight) (Refrigerator cars)

CIA-RDP86-00513R000722420007-7" **APPROVED FOR RELEASE: 03/13/2001**

1. Predsedatel' savkoma Kaluzhskogo zavoda avtonotoelektrooborudovani- ya. (Kaluga-Schoolhouses)	We build children no.8:31-32 Ap	's institutions ourselves. Sov.profsoiusy 7	,
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	mina/	gaSchoolhouses)	

s/020/63/148/001/006/032

AUTHOR:

Khudyayev, S.

TITLE:

Solvability criteria of the Dirichlet problem for elliptic

PERIODICAL:

Akademiya nauk SSSR. Doklady, v. 148, no. 1, 1963, 44-46

TEXT: For a quasilinear elliptic equation

$$L(u) = \sum_{i,j} a_{i,j}(x,u)u_{x_ix_j} + \sum_{i} a_{i}(x,u,u_{x_k})u_{x_i} + a(x,u) = 0$$
 (1)

which is defined in a bounded domain C with the boundary S and which satisfies the boundary condition

$$u|_{S} = \varphi(x),$$
 (2)

the following theorem is derived: Let the following propositions be fulfilled: (A) There are a function $v_1(x) \in C^{2+\nu}(G)$ ($\nu > 0$) and a function $v_2(x) \in C^2(G)$ such that $L(v_2) \le 0 \le L(v_1)$ in G, Card 1/3

Solvability criteria of the ...

S/020/63/148/001/006/032 B112/B180

 $L(v_1) = f_1(x) \in C^{1+\vee}(C), v_1(x) \le v_2(x) \text{ in } C, v_1|_S \le \psi(x) \le v_2|_S.$

(B) The condition of ellipticity is uniformly fulfilled in the domain G_1 : $\{x \in G, v_1 \le u \le v_2\}$. (C) $G \in A^{2+\nu}$, $\varphi(x) \in C^{2+\nu}(s)$, $a_{ij}(x,u) \in C^{2+\nu}(G_1)$, $a(x,u) \in C^{1+V}(G_1), \text{ and } a_1(x,u,p_1,\ldots,p_n) \in C^{1+V} \text{ in any compact part of the domain } G_2: \left\{ (x,u) \in G_1, -\infty < p_k < +\infty \right\}. (D) For (x,u) \in G_1 \text{ there is }$

such an A > 0 that

 $|a_{l}| + \sum_{k} \left| \frac{\partial a_{l}}{\partial x_{k}} \right| + \left| \frac{\partial a_{l}}{\partial u} \right| + \left(\sum_{k} \left| \frac{\partial a_{l}}{\partial \rho_{k}} \right| \right) \left(1 + \sum_{k} |\rho_{k}| \right) \leqslant A \left(1 + \sum_{k} |\rho_{k}| \right).$

Under these assumptions, there exists at least one solution $v(x) \in C^{2+\alpha}(G)$, $(\alpha > \vee)$ to the problem (1), (2), which fulfills the inequality $\hat{\mathbf{v}}_1(\mathbf{x}) \leq \mathbf{v}(\mathbf{x}) \leq \mathbf{v}_2(\mathbf{x})$.

ASSOCIATION:

Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics of the Academy of Sciences USSR)

Card 2/3

Solvability criteria of the ...

8/020/63/148/001/006/032 B112/B180

PRESENTED:

July 4, 1962, by I. G. Petrovskiy, Academician

SUBMITTED:

June 30, 1962

Card 3/3

"Boundary problems for the steady equation of heat conduction with sources depending on temperature."

report submitted for 2nd All-Union Conf on Heat & Mass Transfer, Minsk, 4-12

May 1964.

Inst of Chemical Physics, AS USSR.

5/0207/64/000/003/0118/0125

AUTHORS: Barzy*kin, V. V. (Moscow); Gontkovskaya, V. T. (Moscow); Merzhanov, A. G. (Moscow); Khudyayev, S. I. (Moscow)

TITLE: Nonstationary theory of thermal explosion

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 3, 1964, 118-125

TOPIC TAGS: thermal explosion, heat transfer, Newtonian heat exchange, thermophysics, approximate formula

ABSTRACT: The authors use an electronic computer to analyze and solve a system of partial differential equations for thermal explosion for a reaction of zeroth and first order with conductive heat transmission in the reaction zone and Newtonian heat exchange on the boundary. They analyze

and
$$\frac{\partial \eta}{\partial \tau} = \gamma \psi (\eta) \exp \frac{\theta}{1 + \beta \theta}$$
 $\frac{\partial \theta}{\partial \tau} = \psi (\eta) \exp \frac{\theta}{1 + \beta \theta} + \frac{1}{\delta} \left(\frac{\partial^2 \theta}{\partial \xi^2} + \frac{\pi}{\xi} \frac{\partial \theta}{\partial \xi} \right)$ (1)
$$0 = \frac{E}{RT_0^{-1}} (T - T_0), \quad \tau = \frac{QBk_0!}{c\rho RT_0^{-1}} \exp \left(-\frac{E}{RT_0} \right), \quad \xi = \frac{\pi}{\zeta}$$

$$\delta = \frac{QBr^2k_0}{kRT_0^{-1}} \exp \left(-\frac{E}{RT_0} \right), \quad \gamma = \frac{c\rho RT_0^{-1}}{QB}, \quad \beta = \frac{RT_0}{B}.$$
 (2)

where θ is heating, T is time, f is a coordinate, δ is the criterion of Grank-Kamenetskiy, n=0,1 and 2 respectively for plane-parallel, cylindrical, and spherical containers, n=0 is the depth of transformation. The dimensionless variables are: T(x,t) - temperature in the reaction region, T_0 - temperature of the ambient medium, Q - thermal effect of the reaction, R_0 - pre-exponent, R_0 - activation energy, R_0 - coefficient of heat conductivity, R_0 - specific thermal capacity, parallel - half of the thickness). The authors refine the determination of the basic characteristics of thermal explosion. They present the results in the form of approximate formulas relating the characteristics of thermal explosion with given for applicability of the equation averaged over the region for computing the period of induction in the case of conductive heat transmission in the reaction region, and a method for averaging the system of equations for thermal explosion is proposed. Orig. art. has: 5 figures, 6 tables, and 9 formulas.

ASSOCIATION: none

SUBMITTED: 23Jan64

SUB CODE: TD Card 2/2

NO REF SOV! OOR

ENCL: 00 OTHER: 005

S/0020/64/154/004/0787/0790

AUTHOR: Khudyayev, S. I.

TITLE: Boundary-value problems for some quasi-linear elliptical equations

SOURCE: AN SSSR. Doklady*, v. 154, no. 4, 1964, 787-790

TOPIC TAGS: boundary value problem, elliptical equation, quasi linear elliptical equation, Direchlet problem, mathematical analysis, Neumann problem, Neumann function, Bessel function, Bessel differential equation, explosion theory, thermal

ABSTRACT: Boundary-value problems (Direchlet and Neumann) used in stationary thermal explosion theory were analyzed. The problems of solubility, the qualitative behavior of the solutions in relation to the basic parameters, and the problems of a local uniqueness and permanence of the solutions with respect to "small disturbances" are discussed. The criterion for the solubility of the Direchlet problem was established by M. Nagumo (Osaka Math. Journ. 6, (1954), 207) and Khudyayev (DAN, 148, no. 1 (1963), 44). A similar criterion is established in this work for the Neumann problem. Suppose that the equation

Card 1/3

$$L(u) \equiv \sum_{ij} a_{ij}(x) \frac{\partial^{2} u}{\partial x_{i} \partial x_{j}} + \sum_{i} a_{i}(x) \frac{\partial u}{\partial x_{i}} + a(x, u) = 0$$
 (1)

is given in a bounded domain G of an n-dimensional space, and one of the following boundary conditions is given on the boundary S

$$M(u) \equiv \frac{du}{dT_x} + \sigma(x) u = \varphi(x); \qquad (2)$$

Five theorems are then proved. These theorems serve as the basic tools for studying the boundary-value problems. The problems are examined in a more general case than is encountered in the thermal explosion theory. "In conclusion, the author thanks A. I. Vol'pert for his attention to this work and helpful hints." Orig.

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics, Academy of Sciences SSSR)

Card 2/3

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000722420007-7"

(3)

KHUDYAYEV, S.I. (Moskva)

Time characteristics of a thermal explosion in self-accelerating reactions. Nauch.-tekh. probl. gor. i vzryva no.1:70-75 65. (MIRA 18:9)

ACCESSION MELL AFFORMARY

ACCESSION MELL AFFORMARY

AUTHOR: Mostandshiyan, S.A.; Mendandy A.G. Endrover, S. 1

TITLE: Mydrodynamic, Lismal graphstons

SOURCE: AR SSER Doklady, v. 163 ho.; 100, 113-136

ODFIC TARS: hydrodynamic thousal employing motheraic reaction, thursal crain sion, chemically inertificate function indicate for pondinear temperature dependence, snargy disappetion bouldness best source

ASSTRACT: In the presence of an exchange thingel Feaction in a system there may arrise conditions in which Competitive propersively increases until the original themsel explosion facts of a making with the shower the author move that an effect station to increase Propersion System that an effect station to increase Propersion System that the efficiency and the propersion of the propersion of a fried pressure years and the extension of a field pressure years and the extension of a field pressure gradient. The system of equations of soliton and heat conduction; on taking her account energy dissipation; is pressured and, for the particular case Gardiffs.

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AUTHOR: Khudyayev, 8.	L (Moscow)		54
ORG: None			β
TITLE: Time characteris	itics of thermal explosions	of self-accelerating reactions	
SOURCE: Nauchno-tekhni	icheskiye problemy goreniy 	i vzryva, no. 1, 1965, 70–75 المباط s, combustion mechanism, hea	t of
explosion, heat of reaction	n		
explosion equations in the problems with Newtonian Blot number (B). Howeve characteristics of the ther and the time needed for the appeared in the form of the present paper investigates of large B values and der with sufficient accuracy to	absence of temperature dis heat exchange such a treatn or, in spite of the simplicity rmal explosion (the induction he attainment of the maximu onelementary quadratures v s, within the framework of	l explosions of self-acceleration asi-stationary theory using the stribution within the reaction votent corresponds to small value of that system of equations; the period beyond the self-ignition temperature beyond this limitation make their utilization diffithe quasi-stationary theory, the quasi-stationary theory, the haracteristics on the essential	lume. In s of the se time n limit tt) cult. The cases goribe
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L 9275-66 EWT(1)/EMP(m)/ETC/EPF(n)-2/EWG(m)/EWA(d)/ETC(m)/EWA(1) ACC NR: AP5027270 SOURCE CODE: UR/0207/65/000/005/0045/0050 44,55 44,5 44,555 AUTHORS: Bostandshiyan, S. A. (Moscow); Merzhanov, A. G. (Moscow); Khudyaysv (Moscow) ORG: none TITLE: Some problems on nonisothermal steady flow of a viscous fluid SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 5, 1965, 45-50 TOPIC TAGS: lubrication, liquid flow, lubricant viscosity, flow rate, flow temperature measurement, fluid mechanics, heat transfer 21,44155 Three problems of unforced flows are studied: flow between two parallel ABSTRACT: plates, flow in an annular space between two infinite cylinders (axial flow), and flow between two rotating cylinders with account of energy dissipation and the variation of viscosity with temperature given in the Reynolds' equation $\mu = \mu_0 \exp(-\beta T)$. Two types of boundary conditions are considered: a) on both surfaces the constant (and, in the general case, unequal) temperatures are given; and b) the constant temperature on one surface is given, and heat exchange with the surrounding medium occurs through the other. The case of flow between two parallel plates (given simply by y = h and y = -h), one of which moves with a constant velocity V in the positive x - direction,

L 9275-66

ACC NR: AP5027270

is described by the system

$$\frac{d}{d\eta}\left(e^{-\theta}\frac{d\theta}{d\eta}\right)=0, \qquad \frac{d^{\theta}\theta}{d\eta^{\theta}}+ke^{-\theta}\left(\frac{d\theta}{d\eta}\right)^{\theta}=0$$

where dimensionless parameters are given as

$$v = \frac{\theta_x}{V}$$
, $\theta = \beta (T - T_1)$, $\eta = \frac{\dot{y}}{h}$, $k = \frac{\beta \mu_0 V^2}{V} \exp(-\beta T_1)$,

and boundary conditions as

$$v = 1$$
, $\theta = 0$ for $\eta = 1$, $v = 0$, $\theta = \theta_0$ for $\eta = -1$, $\theta_0 = \beta(T_0 - T_1)$.

J denotes the mechanical equivalent of heat, and A is the fluid's coefficient of heat flow, and $T_{\rm o} > T_{\rm 1}$ (surface temperatures). An expression for velocity as a function of n and three constants of integration are determined from a transcendental system based on boundary conditions, and the Couette problem with isothermy is solved. The pattern of solution of the two remaining problems is analogous to that of the first, after account is made of the different flow and geometry conditions as expressed in the equations of motion and heat flow. Some special cases such as the case of equal cylinder temperatures and the insulation of one cylinder are discussed. A means of computing the torsional moment due to friction is given for the flow between two coaxial cylinders. Orig. art. has: 38 equations.

SUB CODE: 20/ SUBM DATE: 04Jan65/ ORIG REF: 010/ OTH REF: 002

L 06232-67 EWT (In) WW/JW/WE AP6030658

SOURCE CODE: UR/0020/66/169/006/1366/1369

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ORG: none

ACC · NR:

11

TITLE: Problem of critical ignition conditions with heat losses

SOURCE: AN SSSR. Doklady, v. 169, no. 6, 1966, 1366-1369

TOPIC TAGS: ignition, heat loss, heat coefficient

ABSTRACT: The authors examine the problem of critical ignition conditions of a semiinfinite cylinder with the constant temperature T_{0} on the end, with Newtonian heat transfer from the side surface, characterized by the heat loss coefficient a at an ambient temperature of $T_A < T_0$. An equality is derived which with a practical allowable error can be considered as the critical ignition condition for any Bi which is a function of the distance from a certain fixed axis in the cylinder to the side surface. Two solutions are given--for plus and minus signs of solvability conditions. When $\delta = \delta_{\text{crit}}$, both solutions merge. A graphic form of these solutions is also given.

Equations are written for a circular cross section of a cylinder, but a two-dimensional surface can also be used. The authors thank A. G. Merzhanov for his valuable advice. Presented by Academician V. N. Kondrat'yev on 27 November 1965. Orig. art. has: 2 figures, 13 formulas.

SUB CODE: 20/ SUBM DATE: none/

ORIG REF: 005

UDC: 536.46